

MODEL W1764 1/8 HP POWER FEEDER



OWNER'S MANUAL

Phone: (360) 734-3482 • Online Technical Support: tech-support@shopfox.biz

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WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM WITHOUT
THE WRITTEN APPROVAL OF WOODSTOCK INTERNATIONAL, INC.



WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

Failure to read, understand and follow the instructions given in this manual may result in serious personal injury, including amputation, electrocution or death.

The owner of this machine/equipment is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, blade/cutter integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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INTRODUCTION

Woodstock Technical Support

This machine has been specially designed to provide many years of trouble-free service. Close attention to detail, ruggedly built parts and a rigid quality control program assure safe and reliable operation.

Woodstock International, Inc. is committed to customer satisfaction. Our intent with this manual is to include the basic information for safety, setup, operation, maintenance, and service of this product.

We stand behind our machines! In the event that questions arise about your machine, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: tech-support@shopfox.biz. Our knowledgeable staff will help you troubleshoot problems and process warranty claims.

If you need the latest edition of this manual, you can download it from <http://www.shopfox.biz>.

If you have comments about this manual, please contact us at:

Woodstock International, Inc.
Attn: Technical Documentation Manager
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MACHINE SPECIFICATIONS



Phone #: (360) 734-3482 • Online Tech Support: tech-support@shopfox.biz • Web: www.shopfox.biz

MODEL W1764 SMALL POWER FEEDER

Motor

Type	Universal Variable Speed
Horsepower	1/8 HP
Voltage	110V
Prewired	110V
Phase	Single
Amps	1.2A
Speed	550–3300 RPM
Cycle	60 Hz
Number of Speeds	Variable
Power Transfer	Gear Box
Bearings	Lubricated for Life

Main Specifications

Operation Info

Minimum Workpiece Length	5 in.
Number of Feed Speeds	Variable
Feed Speeds	6.5–39 FPM
Swing	360 deg.
Vertical Movement	10-1/4 in.
Horizontal Movement	10-1/4 in.
Rotation	Forward, Reverse

Roller Info

Number of Rollers	3
Roller Width	1-3/16 in.
Roller Diameter	3 in.
Roller Suspension Travel	5/16 in.
Maximum Height of Rollers	6 in.
Distance Between Rollers	3-3/4 in.

Overall Dimensions

Weight	20 lbs.
Length/Width/Height	31 x 11 x 12 in.
Column Diameter	1-1/4 in.

Construction Materials

Roller Construction	Synthetic Rubber
Housing Construction	Cast Aluminum
Supports Construction	Cast Iron
Column Construction	Steel
Paint	Epoxy



Shipping Dimensions

Type Cardboard
Content..... Machine
Weight 27 lbs.
Length/Width/Height 11 x 22 x 9 in.

Electrical

Switch On/off Variable Speed
Switch Voltage 110V
Cord Length..... 9 ft.
Cord Gauge 18 gauge
Recommended Breaker Size 10 amp
Included Plug Yes

Other

ISO Factory ISO 9001
Country of Origin Taiwan
Warranty 2 Years
Assembly Time 20 minutes

Optional Accessories

Quick Holder..... Model D3868
Extra Roller Model D3870

Features

Spring Tensioned Rollers
Heavy-Duty Gear Reduction Gearbox with Hardened Gears
Universal Positioning with Handle Locks

Controls and Features

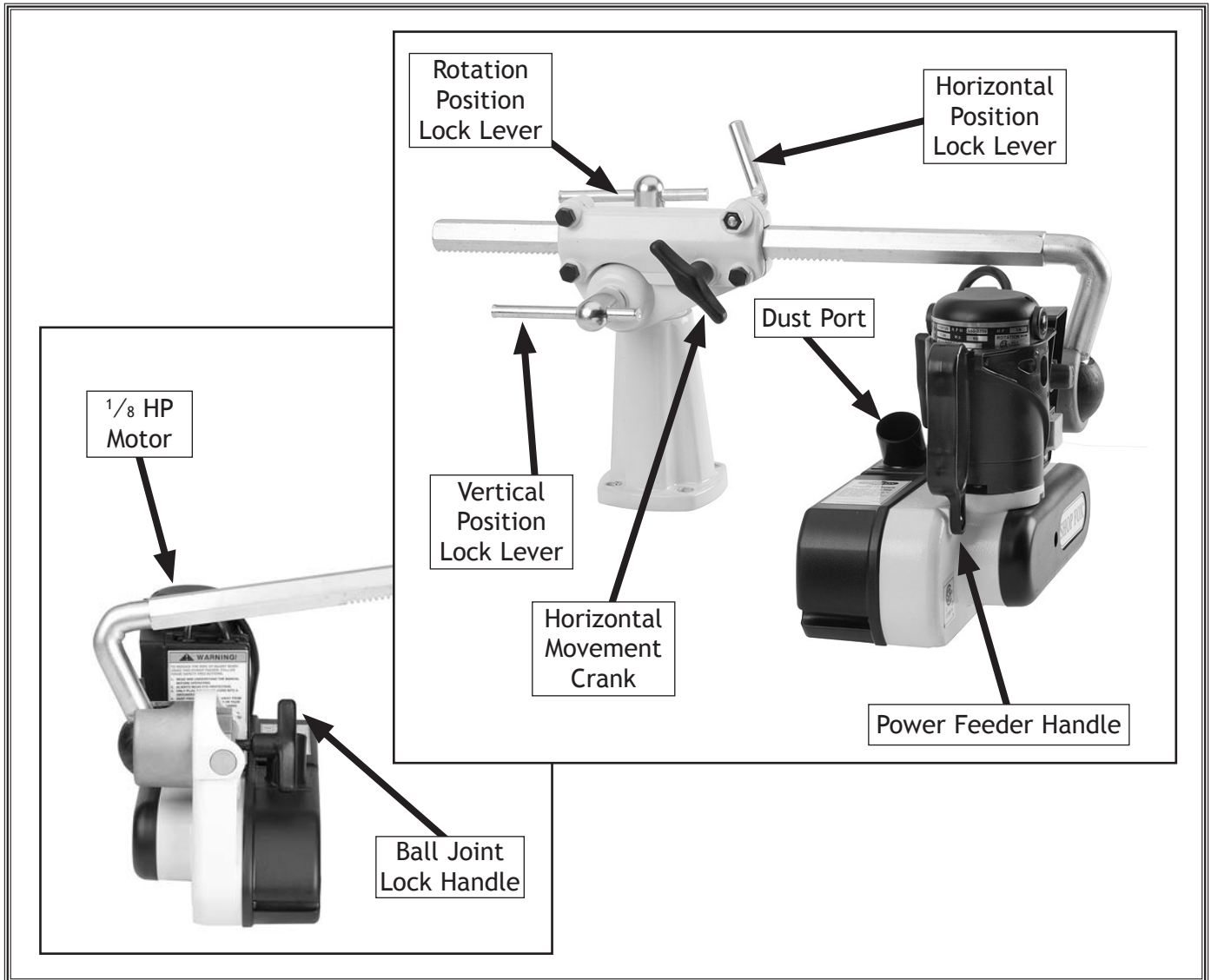


Figure 1. Controls and Features.

SAFETY

**READ MANUAL BEFORE OPERATING MACHINE.
FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL
RESULT IN PERSONAL INJURY.**

DANGER

Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING

Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment, and/or a situation that may cause damage to the machinery.

Standard Safety Instructions

1. **READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY.** Machinery presents serious injury hazards to untrained users.
2. **ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY.** Everyday eye-glasses only have impact resistant lenses—they are **NOT** safety glasses.
3. **ALWAYS WEAR AN NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.** Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.
4. **ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.** Machinery noise can cause permanent hearing damage.
5. **WEAR PROPER APPAREL.** **DO NOT** wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
6. **NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Be mentally alert at all times when running machinery.
7. **ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY.** Make sure operation instructions are safe and clearly understood.
8. **KEEP CHILDREN AND VISITORS AWAY.** Keep all children and visitors a safe distance from the work area.
9. **MAKE WORKSHOP CHILD PROOF.** Use padlocks, master switches, and remove start switch keys.

10. **NEVER LEAVE WHEN MACHINE IS RUNNING.** Turn power off and allow all moving parts to come to a complete stop before leaving machine unattended.
11. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
12. **KEEP WORK AREA CLEAN AND WELL LIT.** Clutter and dark shadows may cause accidents.
13. **USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE.** Undersized cords over-heat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.
14. **ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY.** Make sure switch is in OFF position before reconnecting.
15. **MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.**
17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Make a habit of checking for keys and adjusting wrenches before turning machinery ON.
18. **CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY.** Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
19. **USE RECOMMENDED ACCESSORIES.** Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
20. **DO NOT FORCE MACHINERY.** Work at the speed for which the machine or accessory was designed.
21. **SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.
22. **DO NOT OVERREACH.** Keep proper footing and balance at all times.
23. **MANY MACHINES WILL EJECT THE WORKPIECE TOWARD THE OPERATOR.** Know and avoid conditions that cause the workpiece to "kickback."
24. **ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.**
25. **BE AWARE THAT CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Make sure you know the hazards associated with the type of dust you will be exposed to and always wear a respirator approved for that type of dust.

Additional Safety for Power Feeders

SAFETY

	<p>⚠️ WARNING</p> <p>READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!</p>
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<p>⚠️ CAUTION</p> <p>USE this and other machinery with caution and respect. Always consider safety first, as it applies to your individual working conditions. No list of safety guidelines can be complete—every shop environment is different. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.</p>

1. **SAFETY ACCESSORIES.** Always use appropriate machine guards.
2. **TOOL SPEED.** Make sure all cutting tools are rotating at the operating speed before feeding the workpiece.
3. **FEEDING SPEED.** **DO NOT** overload the cutting tool by feeding too quickly. The cutting tool will perform better and be safer working at the rate for which it was designed.
4. **HAND SAFETY.** Keep hands away from rotating parts on the feeder and the cutting tool. Do not allow hands or clothing to be pinched between the rollers and workpiece.
5. **WORKPIECE SUPPORT.** **DO NOT** feed long workpieces without providing adequate support at the outfeed end of the table.
6. **STOPPING FEEDER.** Always stop the feeder before stopping the cutting tool.
7. **ADJUSTMENTS.** Disconnect the feeder from its power source before cleaning, repairing, or making adjustments.
8. **EXPERIENCING DIFFICULTIES.** If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact Tech Support at (360) 734-3482.
9. **MACHINE MANUAL.** This manual only covers the power feeder. It is not a replacement for the manual that came with the machine on which the power feeder is mounted. Make sure to read that manual also for correct operation and safety precautions.

ELECTRICAL

⚠️ WARNING
 The machine must be properly set up before it is safe to operate. **DO NOT** connect this machine to the power source until instructed to do so in the "Test Run" portion of this manual.

110V Operation

The Model W1764 is wired for 110V operation. We recommend connecting this machine to a dedicated circuit with a verified ground, using the circuit size below as a minimum. Never replace a circuit breaker with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes.

This machine must be grounded! The electrical cord supplied with this machine comes with a grounding pin. If your outlet does not accommodate a ground pin, have it replaced by a qualified electrician.

If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, you may create a fire or circuit overload hazard—consult a qualified electrician to reduce this risk.

Extension Cords

We do not recommend using an extension cord; however, if you have no alternative, use the following guidelines:

- Use a cord rated for Standard Service (S).
- Do not use an extension cord longer than 50 feet.
- Ensure that the cord has a ground wire and pin.
- Use the gauge size listed below as a minimum.

Electrical Specifications

Operating Voltage	Amp Draw	Min. Circuit Size	Plug/Receptacle	Extension Cord
110V Operation	1.2 Amps	15A	NEMA 5-15	14 Gauge

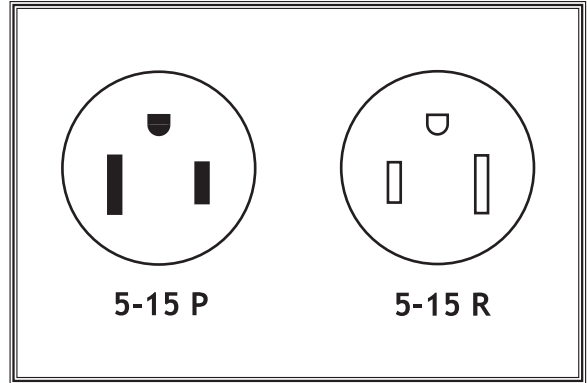


Figure 2. 5-15 plug and receptacle.

⚠️ WARNING

DO NOT work on your electrical system if you are unsure about electrical codes and wiring! Seek assistance from a qualified electrician. Ignoring this warning can cause electrocution, fire, or machine damage.

ELECTRICAL

SETUP

Unpacking

This machine has been carefully packaged for safe transportation. If you notice the machine has been damaged during shipping, please contact your authorized Shop Fox dealer immediately.

Inventory

The following is a description of the main components shipped with the Model W1764. Lay the components out to inventory them.

Note: *If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for safer shipping.*

Box Inventory (Figures 3 & 4)	Qty
A. Base.....	1
B. Arm Bracket	1
C. Power Feeder Unit	1
D. Arm	1
E. Base Mounting Template	1
F. Elbow Clamp Assembly	1
G. Ball Joint Assembly.....	1
H. Hardware Bag (Figure 4).....	1
–Cap Screw M10-1.5 x 25mm (Elbow Clamp).....	1
–Hex Bolt M10-1.5 x 50mm (Elbow Clamp)	3
–Lock Lever (Arm Bracket Clamp)	1
–Hex Nut M8-1.25mm (Arm Bracket Clamp).....	1
–Flat Washer 8mm (Arm Bracket Clamp)	1
–T-Handle and Pivot Bar (Ball Joint Assembly).....	1
–Hex Bolt M10-1.5 x 35mm (Base)	4
–Lock Washer 10mm (Base)	8
–Hex Nut M10-1.5mm (Base).....	7

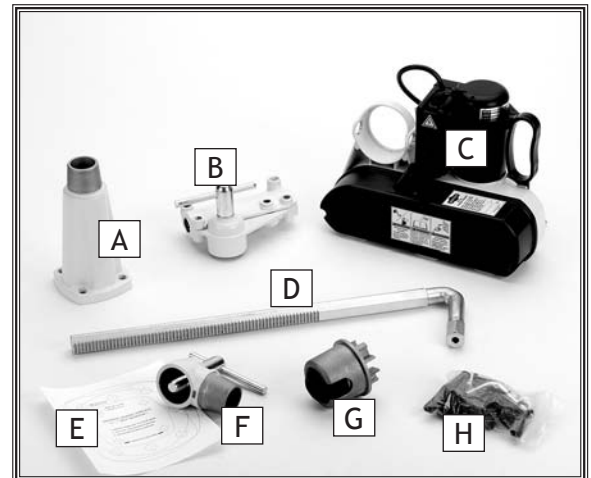
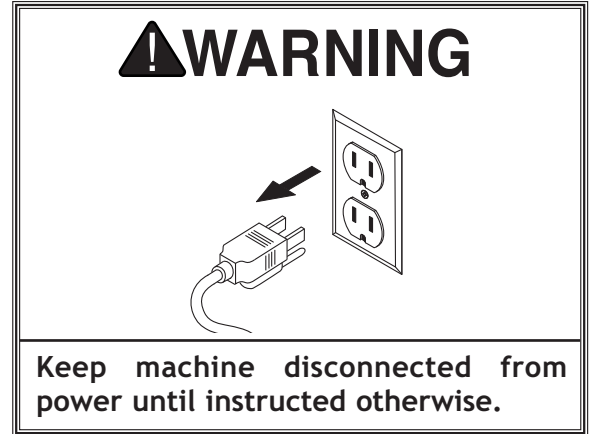


Figure 3. Box inventory.



Figure 4. Hardware inventory.

SETUP

Machine Placement

- **Table Load:** This power feed distributes a heavy load in a small footprint. Some machine table tops may require additional bracing or clamps for correct support.
- **Working Clearances:** Consider existing and anticipated needs, size of material to be processed through the machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your power feed.
- **Lighting:** Lighting should be bright enough to eliminate shadow and prevent eye strain.
- **Electrical:** Electrical circuits must be dedicated or large enough to handle amperage requirements. Outlets must be located near each machine, so power or extension cords are clear of high-traffic areas. Follow local electrical codes for proper installation of new lighting, outlets, or circuits.

	<p>⚠ CAUTION MAKE your shop is “child safe.” Ensure that your workplace is inaccessible to youngsters by closing and locking all entrances when you are away. NEVER allow untrained visitors in your shop when assembling, adjusting or operating equipment.</p>
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Cleaning Machine

Some unpainted parts of your power feed may be coated with oil or a waxy grease that protects them from corrosion during shipment. Clean this oil or grease off with a solvent cleaner or citrus-based degreaser. **DO NOT** use chlorine-based solvents such as brake parts cleaner or acetone—if you happen to splash some onto a painted surface, you will ruin the finish.

	<p>⚠ WARNING NEVER use gasoline or other petroleum-based solvents to clean with. Most have low flash points, which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored!</p>
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	<p>⚠ CAUTION ALWAYS work in well-ventilated areas far from possible ignition sources when using solvents to clean machinery. Many solvents are toxic when inhaled or ingested. Use care when disposing of waste rags and towels to be sure they DO NOT create fire or environmental hazards.</p>
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SETUP

Assembly

To correctly position this power feeder on your table top, completely assemble the power feeder first, then refer to **Base Mounting on Page 15**. The reason for this order, is that with the power feeder unit completely assembled, it will be easier to locate where on the table top you will need to drill your base mounting holes, so you can take advantage of the full range of power feeder swing and adjustments.

To assemble the power feeder, do these steps:

1. Oil the T-handle threads and position the elbow clamp assembly onto the feeder base as shown in **Figure 5**.
 2. Thread the T-handle into the feeder base until the elbow is snug.
 3. Insert the arm into the ball-joint ball and secure both together with the M10-1.5 x 25mm cap screw shown in **Figure 6**.
 4. Insert the ball joint assembly into the power feed socket shown in **Figure 6**.
 5. Insert the ball-joint socket into the power feed socket as shown in **Figure 7**, so it rests against the ball-joint ball.
- Note:** *Lubrication is not necessary for the ball joint assembly.*
6. Align the ball-joint socket with the power feeder socket and insert the pivot bar as shown in **Figure 7**.
 7. Lightly oil the T-handle threads.
 8. Thread the T-handle through the pivot bar so the end of the T-handle bolt presses against the ball-joint socket firmly as shown in **Figure 7**.

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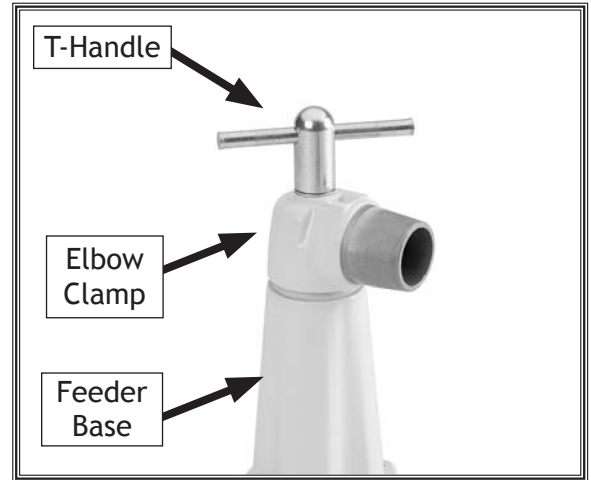


Figure 5. Assembled elbow clamp assembly.

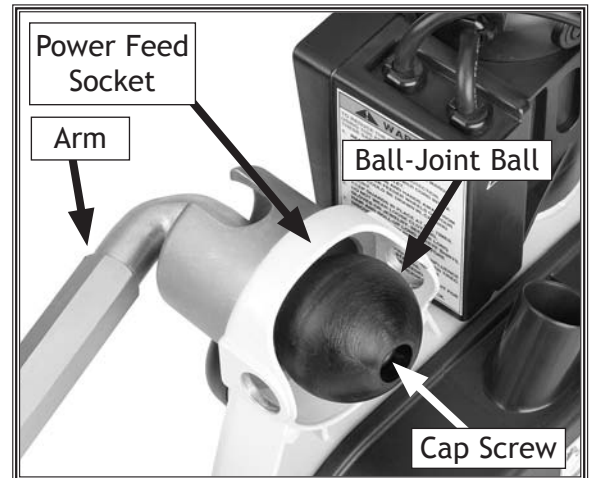


Figure 6. Arm, ball joint and socket assembly.

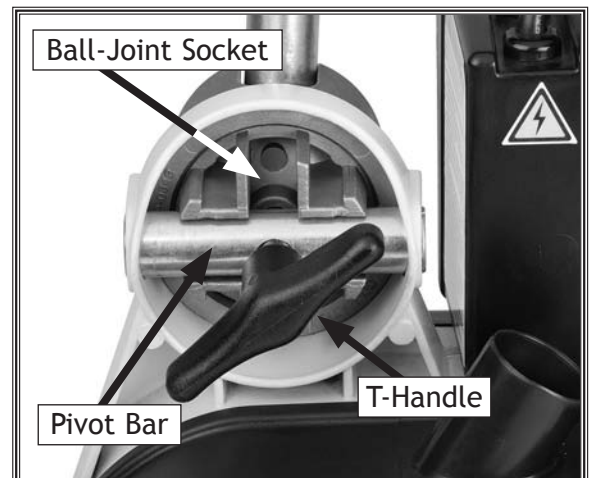


Figure 7. Assembled ball joint assembly.

- Place the arm into the arm bracket so the teeth of the gear and arm mesh as shown in **Figure 8**.

Note: No lubrication is required for the gear or rack teeth. Oil or grease will gather debris making the horizontal adjustment of the power feeder difficult.

- Secure the arm bracket cover onto the arm bracket with three M10-1.5 x 35 hex bolts and washers (**Figure 9**).

Note: Make sure that you do not tighten the hex bolts so much as to prevent the arm from sliding in and out of the arm bracket when the horizontal crank is turned.

- Insert the horizontal crank completely so it engages the spline (**Figure 8**) in the gear.
- Insert the lock lever, flat washer, and hex nut as shown in **Figure 9**.
- Place the E-clip on the end of the horizontal crank to retain the crank as shown in **Figure 10**.
- Turn the horizontal crank to make sure that the cover bolts are not too tight or too loose. Adjust the three hex bolts as required to achieve a slight drag between the arm and arm bracket.

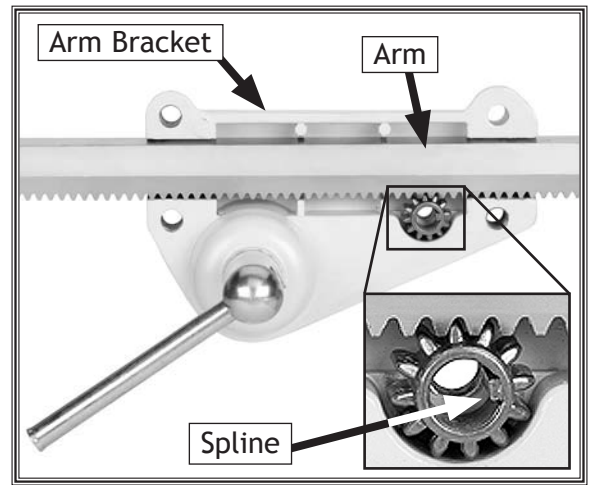


Figure 8. Arm bracket gearing.

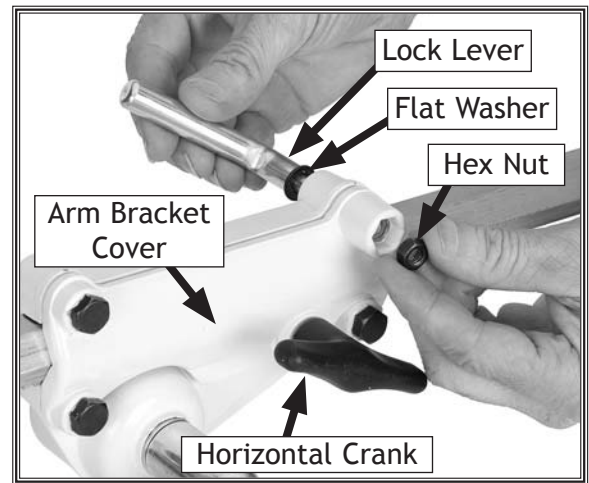


Figure 9. Assembling arm bracket.

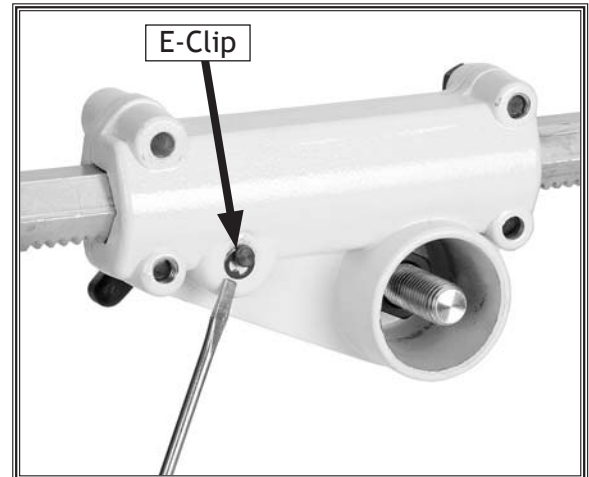


Figure 10. Horizontal movement handle E-clip.

Continued on next page

SETUP

15. Lightly oil the T-handle threads shown in **Figure 11**.

Note: *No lubrication is required for the arm bracket and the elbow clamp connection.*

16. Position the arm bracket onto the elbow clamp as shown in **Figure 12**.

17. Thread the T-handle into the elbow clamp so both assemblies are secure as shown in **Figure 12**.

18. Use the levers to lock the power feeder into position, such as the example shown in **Figure 13**.

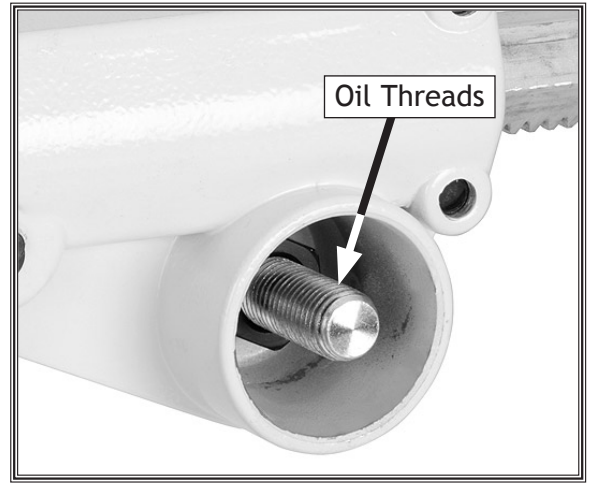


Figure 11. Arm bracket handle threads.



Figure 12. Arm bracket and elbow clamp assembly.



Figure 13. Typical power feed mounting using an optional Model D3868 Quick Holder.

SETUP

Base Mounting

To correctly position this power feeder on your table top, completely assemble the power feeder first, then refer this section and mount your base to the table using one of the three methods below. The reason for this order, is that with the power feeder unit completely assembled, it will be easier to locate where on the table top you will need to drill your base mounting holes, so you can take advantage of the full range of power feeder swing and adjustments.

Through-Bolt Option

We recommend that you mount your new power feeder to the machine table with through bolts, nuts and washers (**Figure 14**). This option will give the most rigidity and clamping strength to prevent the feeder base from twisting out of alignment during use. However, if the included mounting bolt template shows that any under-table support webs will interfere with any washer or nut locations under the table, you will have to use an optional clamping kit, or drill and thread holes directly into the table as described in the **Direct Mount Option** paragraph below.

Direct Mount Option

You may choose to use the included mounting template and drill and tap your table, so the power feeder base can be directly mounted to the table surface (**Figure 15**). But make sure that the machine cast-iron table is no less than $\frac{3}{8}$ " thick where the threaded holes are drilled and tapped. If the table is any thinner, you run the risk of having shallow and weak threads that will allow the bolts to loosen as the power feeder is used. Thread locking compound will not cure this problem. Do not drill and tap into any table support webs or table supports to compensate for a thin table, or you will weaken the table and possibly cause cracking. Revert to either the **Through-Bolt Option** or the **Quick Holder Kit Option** if the table is too thin or if support webbing is in the way. In any case, make sure to use an automotive-grade liquid thread locking compound on all threads.

Quick Holder Kit Option

For temporary or permanent installation of your power feeder without drilling into the table, you can purchase and install the Model D3868 Quick Holder Kit (**Figure 16**). These kits, while not as rigid as the through-bolt or direct mount options, require no drilling or tapping, and are adequate for most power feeder applications. Make sure to use an automotive-grade liquid thread locking compound on all threads.

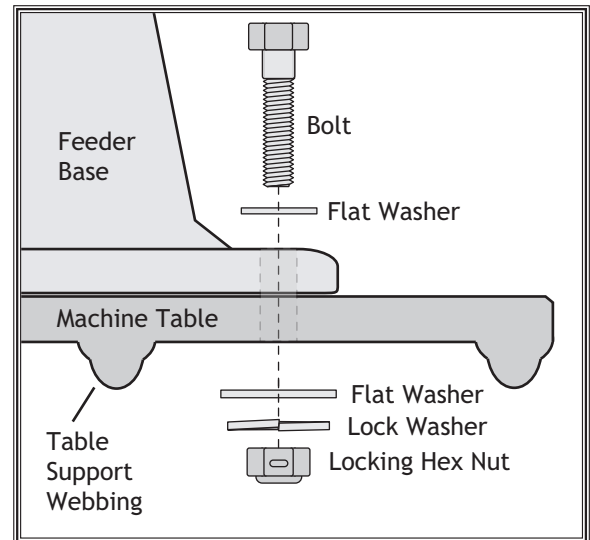


Figure 14. Through-bolt mounting.

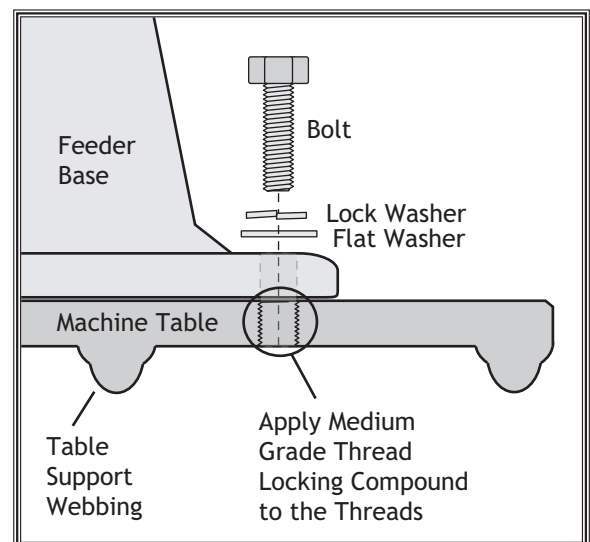


Figure 15. Direct mounting.

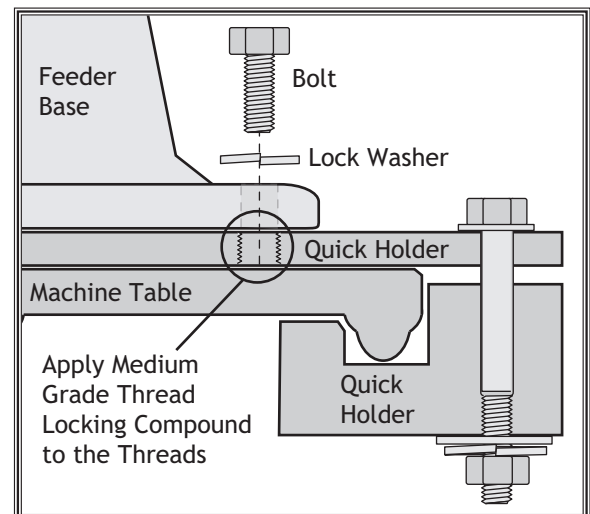


Figure 16. Quick holder mounting.

Test Run

Complete this process once you have familiarized yourself with all instructions in this manual. If during the test run a source of an unusual noise or vibration is not readily apparent, contact our technical support for help at (360) 734-3482 or contact us online at tech-support@shopfox.biz.

To test run the power feed, do these steps:

1. Read the entire instruction manual first!
2. Make sure all tools and foreign objects have been removed from the tabletop area.
3. Make sure the speed dial (Figure 17) is pushed *IN* and turned all the way to the left.
4. Make sure the feed direction rocker switch (Figure 17) is in the central position.
5. Adjust the power feeder so all wheels are approximately 1" above the table surface.
6. Connect the power feeder to the power source.
7. Push the feed direction rocker switch to the left or right.
8. Pull the speed dial out until it stops and the power feeder will slowly turn. The power feed should run slowly and smoothly with little or no vibration.
9. Slowly turn the speed dial clockwise. The speed of the wheels should increase respectively.
10. Turn the speed dial back to zero, push the rocker switch to the other direction, and turn the speed dial clockwise again until the wheels turn. The wheels should turn the opposite direction as before.
11. Turn the power feeder **OFF** and move the rocker switch to the central position. The test run is complete.

SETUP

! WARNING

Projectiles thrown from the machine could cause serious eye injury. Wear safety glasses to reduce the risk of injury.

! WARNING

Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing rolled up and long hair tied up and away from machinery.

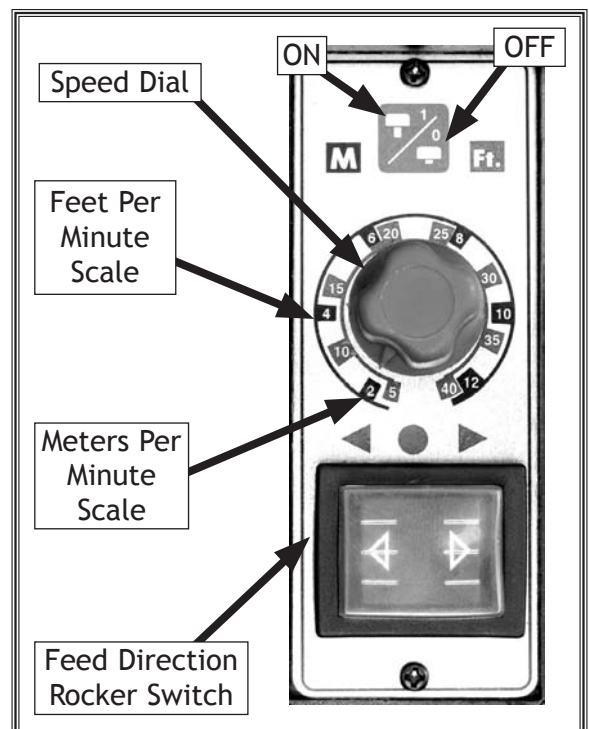


Figure 17. Feeder motor controls.

OPERATIONS

General

This machine will perform many types of operations that are beyond the scope of this manual. Many of these operations can be dangerous or deadly if performed incorrectly.

The instructions in this section are written with the understanding that the operator has the necessary knowledge and skills to operate this machine. **If at any time you experience difficulties performing any operation, stop using the machine!**

If you are an inexperienced operator, we strongly recommend that you read books, trade articles, or seek training from an experienced power feeder operator before performing any unfamiliar operations. **Above all, your safety should come first!**

Levers

The levers on this power feeder allow you to adjust the power feeder tracking and height to accommodate many workpiece styles. When adjusting the power feeder, always support the power feeder with a block of wood so when a lever is loosened the feeder does not drop and damage the table or feeder.

Alignment

To use the power feeder properly, the three wheels must be parallel with the table surface and $\frac{1}{8}$ " lower than the thickness of your workpiece. The power feeder must also point towards the machine fence slightly. In other words the tracking of the power feeder must be toed-in approximately 1° to 1.5° degrees towards the machine fence, so the power feeder wheels push the workpiece against the fence slightly during cutting operations.

Dust Port

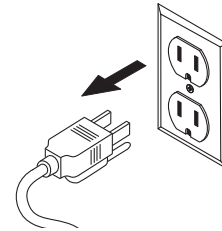
For machine operations that generate a lot of dust, this power feeder is equipped with a dust port. Simply remove the plastic knock-out plug at the bottom of the port and connect a $1\frac{3}{8}$ " inside diameter Shop Vac hose.

WARNING



READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. **DO NOT** risk your safety by not reading!

WARNING



DO NOT investigate problems or adjust the machine while it is running. Wait until the machine is turned **OFF**, unplugged and all working parts have come to a complete stop before proceeding!

WARNING



Always wear safety glasses when operating this machine. Failure to comply may result in serious personal injury.

MAINTENANCE

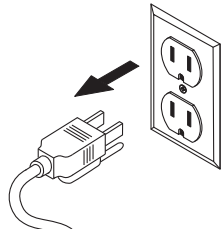
General

Regular periodic maintenance on your machine will ensure its optimum performance. Make a habit of inspecting your machine each time you use it.

Check for the following conditions and repair or replace when necessary:

- Loose mounting bolts.
- Worn switch.
- Worn or damaged cords and plugs.
- Damaged wheel rubber.
- Any other condition that could hamper the safe operation of this machine.

⚠ WARNING



MAKE SURE that your machine is unplugged during all maintenance procedures! If this warning is ignored, serious personal injury may occur.

Cleaning

Frequently blow-off sawdust with compressed air. This is especially important for the internal working parts and motor. Dust build-up around the motor is a sure way to decrease its life span. If the wheels become loaded up with pitch, oil, or other residues, wipe them clean using a clean rag and a mild solvent. Avoid touching the plastic or paint with mineral spirits or you may damage the surfaces.

Lubrication

Since all bearings are sealed and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them. However, periodically oil the lock lever and T-handle threads to ensure free operation and wipe down the adjustment arm with a thin film of oil as required to prevent surface rust.

SERVICE

General

This section covers the most common service adjustments or procedures that may need to be made during the life of your machine.

If you require additional machine service not included in this section, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: tech-support@shopfox.biz.

Wheel Replacement

If you damage one or more wheels, you can easily replace the wheels.

To replace a wheel, do these steps:

1. DISCONNECT THE FEEDER FROM POWER!
2. Using a #2 Phillips screw driver, remove the three cover screws and the cover (**Figure 18**).
3. Put on your safety glasses and remove the retaining ring (**Figure 18**) using external retaining ring pliers.
4. Replace the wheel and reassemble the power feeder.

Brush Replacement

After a long period of time you may notice the motor lose some power or begin to growl during operation. This indicates that the motor brushes are worn and need replacement. The brushes can be easily replaced.

To replace the brush set, do these steps:

1. DISCONNECT THE FEEDER FROM POWER!
2. Using a standard #2 screw driver, unscrew both brush caps (**Figure 19**).
3. Replace the brush set (**Figure 19**) and reinstall the caps.

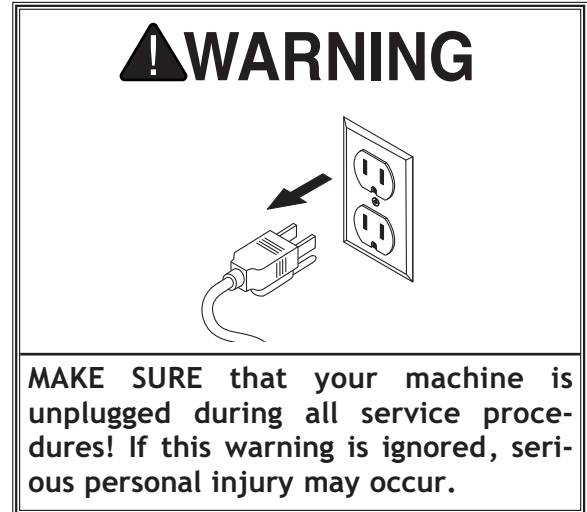


Figure 18. Wheel replacement.



Figure 19. Brush set replacement.

Electrical



Model W1764 Power Feeder Wiring Diagram

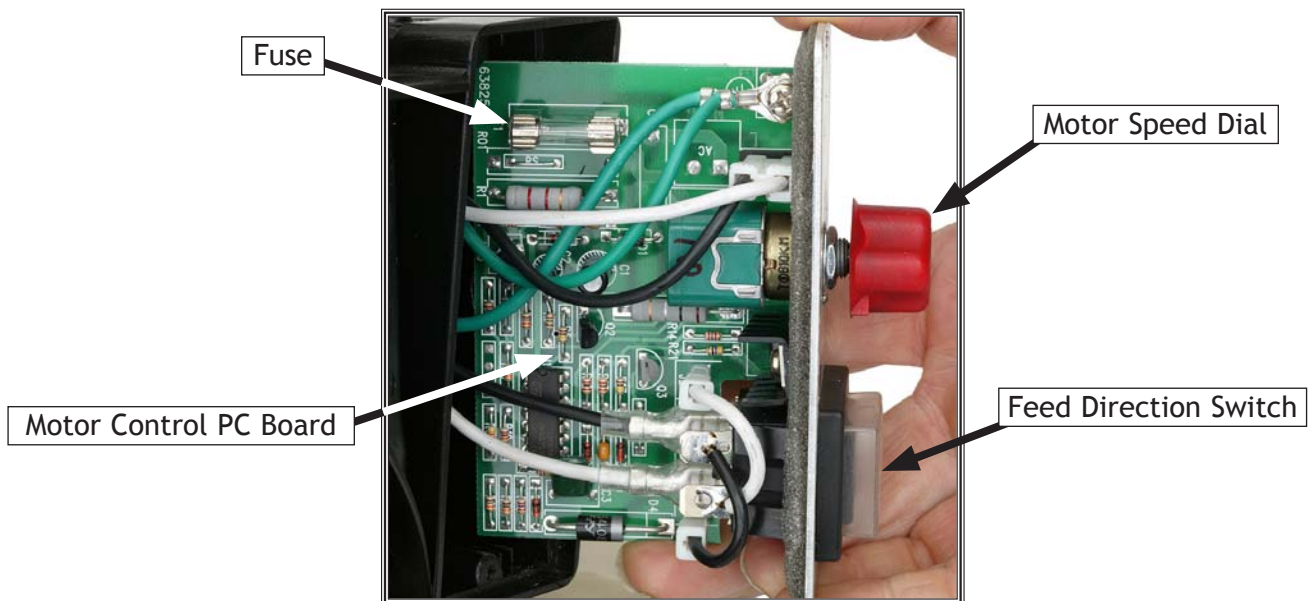
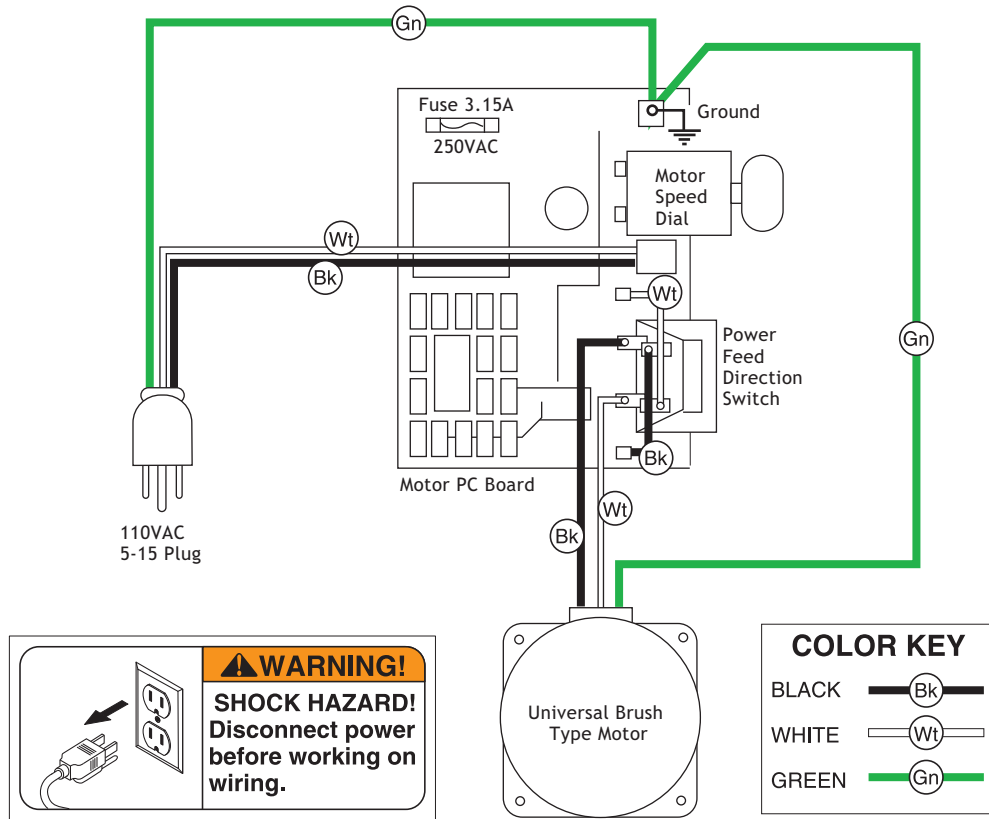
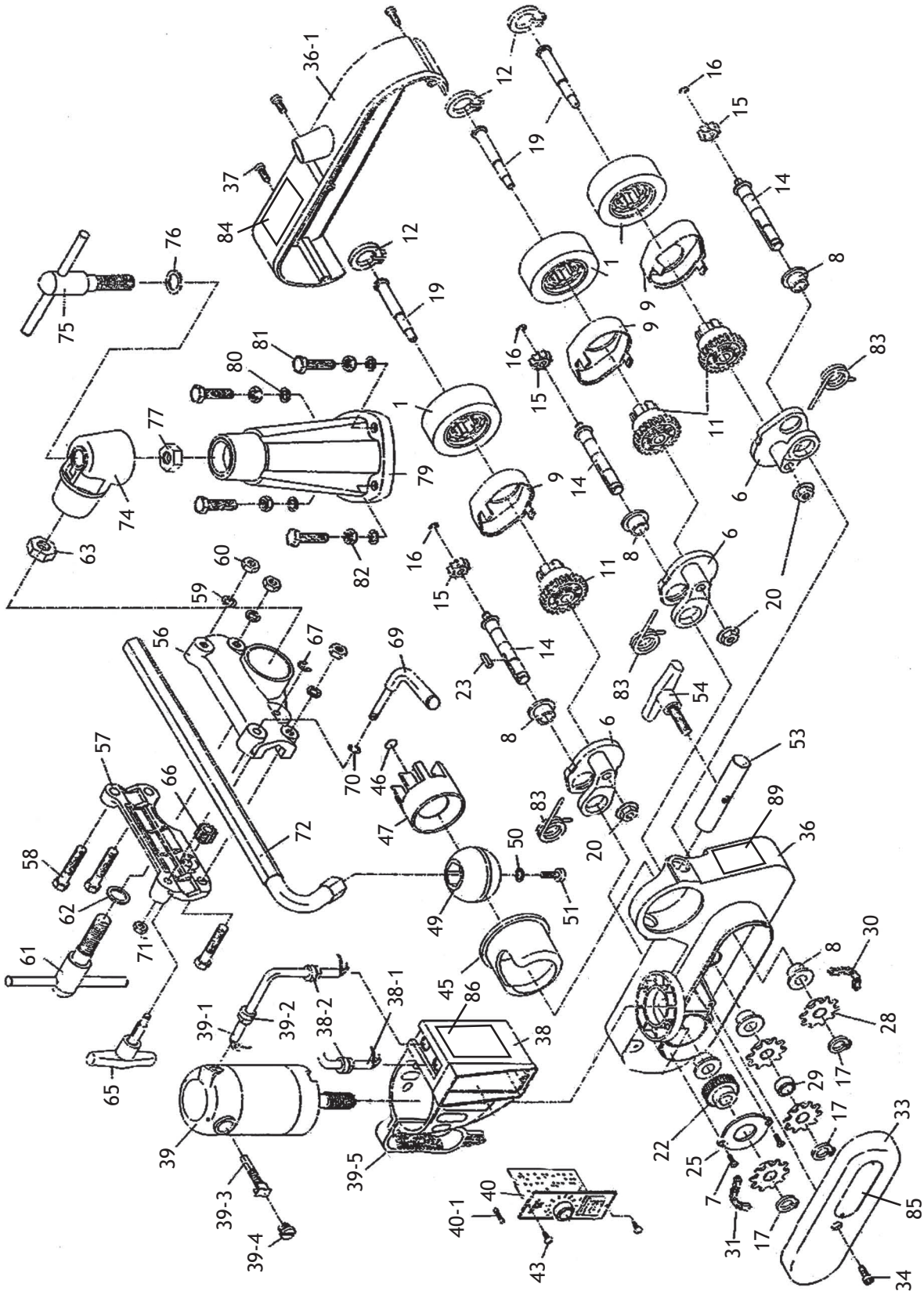


Figure 20. Feeder Control System.

PARTS



REF	PART #	DESCRIPTION
1	D3870	ROLLER
6	X1764006	SPROCKET CASE
7	XPFH29M	FLAT HD SCR M6-1 X 10
8	X1764008	BUSHING
9	X1764009	CASE CAP
11	X1764011	GEAR KIT 25-TOOTH
12	XPR10M	EXT RETAINING RING 22MM
14	X1764014	DRIVE SHAFT
15	X1764015	GEAR 10-TEETH
16	X1764016	E-CLIP 6.4MM
17	XPR03M	EXT RETAINING RING 12MM
19	X1764019	SHAFT
20	XPN03M	HEX NUT M8-1.25
22	X1764022	BEVEL GEAR
23	XPK34M	KEY 5 X 5 X 20
25	X1764025	BEVEL GEAR CAP
28	X1764028	SPROCKET 10-TEETH
29	X1764029	BUSHING 14 X 21 X 10.5
30	X1764030	CHAIN (18S)
31	X1764031	CHAIN (24S)
33	X1764033	BACK COVER
34	XPS40M	PHLP HD SCR M5-.8 X 16
36	X1764036	HOUSING
36-1	X1764036-1	HOUSING COVER
37	XPS40M	PHLP HD SCR M5-.8 X 16
38	X1764038	CONTROL BOX
38-1	X1764038-1	CONTROL BOX POWER CORD
38-2	X1764038-2	CONTROL BOX RUBBER GROMMET
39	X1764039	DC MOTOR 1/8HP
39-1	X1764039-1	MOTOR POWER CORD
39-2	X1764039-2	CABLE CLAMP
39-3	X1764039-3	BRUSH ASSEMBLY
39-4	X1764039-4	BRUSH CAP
39-5	X1764039-5	HOUSING
40	X1764040	MOTOR CONTROL SYSTEM
40-1	X1764040-1	FUSE 3.15, A 250VAC
43	XPHTEK11M	TAP SCREW M3-.5 X 8

REF	PART #	DESCRIPTION
45	X1764045	LOWER BALL SOCKET
46	X1764046	STOPPER
47	X1764047	UPPER BALL SOCKET
49	X1764049	BALL
50	XPLW06M	LOCK WASHER 10MM
51	XPSB64M	CAP SCREW M10-1.5 X 25
53	X1764053	SHAFT
54	X1764054	T-HANDLE
56	X1764056	ARM CLAMP
57	X1764057	ARM CLAMP COVER
58	XPB73M	HEX BOLT M10-1.5 X 50
59	XPLW06M	LOCK WASHER 10MM
60	XPN02M	HEX NUT M10-1.5
61	X1764061	T-HANDLE
62	XPW18M	FLAT WASHER 18MM
63	XPN13M	HEX NUT M16-2
65	X1764065	T-HANDLE
66	X1764066	PINION GEAR
67	XPEC13M	E-CLIP 5MM
69	X1764069	CLAMP LEVER
70	XPW07	FLAT WASHER 5/16
71	XPN03M	HEX NUT M8-1.25
72	X1764072	ARM
74	X1764074	ELBOW SWIVEL CONE
75	X1764075	T-HANDLE
76	XPW18M	FLAT WASHER 18MM
77	XPN13M	HEX NUT M16-2
79	X1764079	BASE
80	XPW04M	FLAT WASHER 10MM
81	XPB14M	HEX BOLT M10-1.5 X 35
82	XPLW06M	LOCK WASHER 10MM
83	X1764083	TORSION SPRING
84	X1764084	DATA LABEL
85	X1764085	SHOP FOX LOGO LABEL
86	X1764086	GENERAL WARNING LABEL
87	X1764087	ENTANGLEMENT LABEL



Warranty Registration

Name _____
 Street _____
 City _____ State _____ Zip _____
 Phone # _____ Email _____ Invoice # _____
 Model # _____ Serial # _____ Dealer Name _____ Purchase Date _____

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

1. How did you learn about us?

<input type="checkbox"/> Advertisement	<input type="checkbox"/> Friend	<input type="checkbox"/> Local Store
<input type="checkbox"/> Mail Order Catalog	<input type="checkbox"/> Website	<input type="checkbox"/> Other:

2. How long have you been a woodworker/metalworker?

<input type="checkbox"/> 0-2 Years	<input type="checkbox"/> 2-8 Years	<input type="checkbox"/> 8-20 Years	<input type="checkbox"/> 20+ Years
------------------------------------	------------------------------------	-------------------------------------	------------------------------------

3. How many of your machines or tools are Shop Fox?

<input type="checkbox"/> 0-2	<input type="checkbox"/> 3-5	<input type="checkbox"/> 6-9	<input type="checkbox"/> 10+
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4. Do you think your machine represents a good value? Yes No

5. Would you recommend Shop Fox products to a friend? Yes No

6. What is your age group?

<input type="checkbox"/> 20-29	<input type="checkbox"/> 30-39	<input type="checkbox"/> 40-49
<input type="checkbox"/> 50-59	<input type="checkbox"/> 60-69	<input type="checkbox"/> 70+

7. What is your annual household income?

<input type="checkbox"/> \$20,000-\$29,000	<input type="checkbox"/> \$30,000-\$39,000	<input type="checkbox"/> \$40,000-\$49,000
<input type="checkbox"/> \$50,000-\$59,000	<input type="checkbox"/> \$60,000-\$69,000	<input type="checkbox"/> \$70,000+

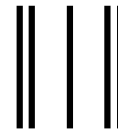
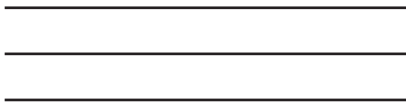
8. Which of the following magazines do you subscribe to?

<input type="checkbox"/> Cabinet Maker	<input type="checkbox"/> Popular Mechanics	<input type="checkbox"/> Today's Homeowner
<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Popular Science	<input type="checkbox"/> Wood
<input type="checkbox"/> Hand Loader	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Wooden Boat
<input type="checkbox"/> Handy	<input type="checkbox"/> Practical Homeowner	<input type="checkbox"/> Woodshop News
<input type="checkbox"/> Home Shop Machinist	<input type="checkbox"/> Precision Shooter	<input type="checkbox"/> Woodsmith
<input type="checkbox"/> Journal of Light Cont.	<input type="checkbox"/> Projects in Metal	<input type="checkbox"/> Woodwork
<input type="checkbox"/> Live Steam	<input type="checkbox"/> RC Modeler	<input type="checkbox"/> Woodworker West
<input type="checkbox"/> Model Airplane News	<input type="checkbox"/> Rifle	<input type="checkbox"/> Woodworker's Journal
<input type="checkbox"/> Modeltec	<input type="checkbox"/> Shop Notes	<input type="checkbox"/> Other:
<input type="checkbox"/> Old House Journal	<input type="checkbox"/> Shotgun News	

9. Comments: _____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE



Place
Stamp
Here



WOODSTOCK INTERNATIONAL INC.
P.O. BOX 2309
BELLINGHAM, WA 98227-2309



FOLD ALONG DOTTED LINE

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

Warranty

Woodstock International, Inc. warrants all Shop Fox machinery to be free of defects from workmanship and materials for a period of two years from the date of original purchase by the original owner. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, lack of maintenance, or reimbursement of third party expenses incurred.

Woodstock International, Inc. will repair or replace, at its expense and at its option, the Shop Fox machine or machine part which in normal use has proven to be defective, provided that the original owner returns the product prepaid to a Shop Fox factory service center with proof of their purchase of the product within two years, and provides Woodstock International, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Woodstock International Inc.'s warranty, then the original owner must bear the cost of storing and returning the product.

This is Woodstock International, Inc.'s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that Shop Fox machinery complies with the provisions of any law or acts. In no event shall Woodstock International, Inc.'s liability under this warranty exceed the purchase price paid for the product, and any legal actions brought against Woodstock International, Inc. shall be tried in the State of Washington, County of Whatcom. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

Every effort has been made to ensure that all Shop Fox machinery meets high quality and durability standards. We reserve the right to change specifications at any time because of our commitment to continuously improve the quality of our products.

